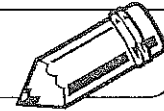


LESSON
3•6

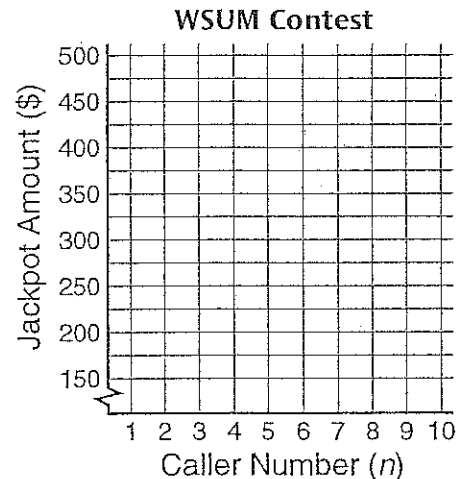
Using Graphs to Make Predictions



Radio station WSUM has a contest in which listeners call in to win money. The contest begins with a \$200 jackpot. One caller each hour can win the jackpot by correctly answering a math question. If the caller does not give a correct answer, \$25 is added to the jackpot for the next hour.

1. Some available jackpot amounts for callers appear in the table below. Complete the table. Then graph the data values from the table.

Caller Number (n)	Jackpot Amount (\$)
1	200
2	225
3	
	275
5	



2. Suppose you were the eighth caller to WSUM and you answered correctly. Extend your graph to predict the amount of money you would win. _____

3. The formula $(n - 1) * \$25 + \200 can be used to express the jackpot amount for any caller. Use this formula to complete the table below. Refer to page 247 of the *Student Reference Book* if you need to review the order of operations.

Rule: $(n - 1) * \$25 + \200

in	out
n	$(n - 1) * \$25 + \200
2	\$225
4	
15	
	\$825
101	

Try This

Predict the number of the caller who would win a jackpot of \$1,000,000. Use the formula $(n - 1) * \$25 + \200 to check your prediction.